

AAAAAAAAAA NNN NNN AAAAAAAA LLL YYY YYY ZZZZZZZZZZZZZZZZ
AAAAAAAAAA NNN NNN AAAAAAAA LLL YYY YYY ZZZZZZZZZZZZZZZZ
AAAAAAAAAA NNN NNN AAAAAAAA LLL YYY YYY ZZZZZZZZZZZZZZZZ
AAA AAA NNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNNNNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNNNNN NNN AAA AAA LLL YYY YYY ZZZ
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AAA AAA NNN NNN NNN AAA AAA LLL YYY YYY ZZZ
AAAAAAAAAAAAAA NNN NNNNNN AAAAAAAA LLL YYY ZZZ
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AAA AAA NNN NNN AAA AAA LLL LLLLLLLL LLLL YYY ZZZZZZZZZZZZZZ
AAA AAA NNN NNN AAA AAA LLL LLLLLLLL LLLL YYY ZZZZZZZZZZZZZZ
AAA AAA NNN NNN AAA AAA LLL LLLLLLLL LLLL YYY ZZZZZZZZZZZZZZ

RRRRRRRR	MM	MM	SSSSSSSS	RRRRRRRR	EEEEEEEEE	PPPPPPPP	000000	RRRRRRRR	TTTTTTTT
RRRRRRRR	MM	MM	SSSSSSSS	RRRRRRRR	EEEEEEEEE	PPPPPPPP	000000	RRRRRRRR	TTTTTTTT
RR	RR	MMMM	MMMM	SS	RR	RR	00	RR	RR
RR	RR	MMMM	MMMM	SS	RR	RR	00	RR	RR
RR	RR	MM	MM	SS	RR	RR	00	RR	RR
RR	RR	MM	MM	SS	RR	RR	00	RR	RR
RRRRRRRR	MM	MM	SSSSSS	RRRRRRRR	EEEEEEEEE	PPPPPPPP	00	RRRRRRRR	TTTT
RRRRRRRR	MM	MM	SSSSSS	RRRRRRRR	EEEEEEEEE	PPPPPPPP	00	RRRRRRRR	TTTT
RR	RR	MM	MM	SS	RR	RR	00	RR	RR
RR	RR	MM	MM	SS	RR	RR	00	RR	RR
RR	RR	MM	MM	SS	RR	RR	00	RR	RR
RR	RR	MM	MM	SS	RR	RR	00	RR	RR
RR	RR	MM	MM	SSSSSSSS	RR	RR	000000	RR	RR
RR	RR	MM	MM	SSSSSSSS	RR	RR	000000	RR	RR

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LL		SSSSSSSS
LL		SSSSSSSS
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LLLLLLLL		SSSSSSSS

```
1 0001 0 %title 'RMSREPORT - Handle Output for ANALYZE/RMS_FILE'  
2 0002 0 module rmsreport (  
3 0003 1 ident='V04-000') = begin  
4 0004 1  
5 0005 1 *****  
6 0006 1 *  
7 0007 1 *  
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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25 0025 1 *  
26 0026 1 *  
27 0027 1 *****  
28 0028 1  
29 0029 1  
30 0030 1 ++  
31 0031 1 Facility: VAX/VMS Analyze Facility, Handle Reports for ANALYZE/RMS_FILE  
32 0032 1  
33 0033 1 Abstract: This module is responsible for all reports from the  
34 0034 1 ANALYZE/RMS_FILE command. Reports can be routed to a file  
35 0035 1 and/or the terminal.  
36 0036 1  
37 0037 1  
38 0038 1 Environment:  
39 0039 1  
40 0040 1 Author: Paul C. Anagnostopoulos, Creation Date: 18 February 1981  
41 0041 1  
42 0042 1 Modified By:  
43 0043 1  
44 0044 1 V03-009 DGB0055 Donald G. Blair 14-Jun-1984  
45 0045 1 On ANLRMSS$ OPENOUT error, rather than print the file  
46 0046 1 spec from the /OUT qualifier (which may be null), print  
47 0047 1 the expanded file spec derived therefrom.  
48 0048 1  
49 0049 1 V03-008 DGB0045 Donald G. Blair 08-May-1984  
50 0050 1 Incorporate the routine ANL$EXIT_WITH_STATUS into the main  
51 0051 1 routine ANL$RMS and add handling for ANL$WORST_ERROR  
52 0052 1 to ANL$FORMAT_ERROR as part of fixing ANALYZRMS so  
53 0053 1 it returns status correctly.  
54 0054 1  
55 0055 1 V03-007 RRB0003 Rowland R. Bradley 1-Jan-1984  
56 0056 1 Correct "value required context" error in ANL$EXIT_WITH_STATUS  
57 0057 1
```

58	0058	1	V03-006 PCA1012	Paul C. Anagnostopoulos	6-Apr-1983
59	0059	1	Add support for /NOOUTPUT qualifier.		
60	0060	1	V03-005 PCA1011	Paul C. Anagnostopoulos	1-Apr-1983
61	0061	1	Change the message prefix to ANLRMSS to ensure that		
62	0062	1	message symbols are unique across all ANALYZEs. This		
63	0063	1	is necessitated by the new merged message files.		
64	0064	1	V03-004 PCA1001	Paul C. Anagnostopoulos	4-Nov-1982
65	0065	1	Display the global buffer count for all files, not		
66	0066	1	just relative and indexed ones.		
67	0067	1	Add code to support the new /SUMMARY mode.		
68	0068	1	V03-003 PCA0031	Paul Anagnostopoulos	24-Mar-1982
69	0069	1	Fix error messages so they use the correct STV value.		
70	0070	1	V03-002 PCA0012	Paul Anagnostopoulos	16-Mar-1982
71	0071	1	Remove maximum record size restriction on report file.		
72	0072	1	V03-001 PCA0011	Paul Anagnostopoulos	16-Mar-1982
73	0073	1	Include new global buffer count when formatting the		
74	0074	1	report of the file attribute area.		
75	0075	1			
76	0076	1			
77	0077	1			
78	0078	1			
79	0079	1			
80	0080	1	--		

```
82      0081 1 %sbttl 'Module Declarations'
83      0082 1
84      0083 1 | Libraries and Requires:
85      0084 1 |
86      0085 1
87      0086 1 | library 'lib';
88      0087 1 | require 'rmsreq';
89      0596 1
90      0597 1
91      0598 1 | Table of Contents:
92      0599 1
93      0600 1
94      0601 1 | forward routine
95      0602 1 |     anl$prepare_report_file: novalue,
96      0603 1 |     anl$report_page: novalue,
97      0604 1 |     anl$format_line: novalue,
98      0605 1 |     anl$format_skip: novalue,
99      0606 1 |     anl$format_error: novalue,
100     0607 1 |     anl$error_count: novalue,
101     0608 1 |     anl$format_flags: novalue,
102     0609 1 |     anl$format_hex: novalue,
103     0610 1 |     anl$format_protection_mask: novalue,
104     0611 1 |     anl$format_file_attributes: novalue;
105     0612 1
106     0613 1
107     0614 1 | External References:
108     0615 1
109     0616 1
110     0617 1 | external routine
111     0618 1 |     cli$get_value: addressing_mode(general),
112     0619 1 |     cli$present: addressing_mode(general),
113     0620 1 |     lib$lp_lines: addressing_mode(general),
114     0621 1 |     lib$put_output: addressing_mode(general),
115     0622 1 |     str$trim: addressing_mode(general);
116     0623 1
117     0624 1 | external
118     0625 1 |     anl$gb_mode: byte,
119     0626 1 |     anl$gl_fat: ref block[,byte];
120     0627 1
121     0628 1
122     0629 1 | Own Variables:
123     0630 1
124     0631 1 | To create the report file, we need a RAB, FAB, and NAM block. We also
125     0632 1 | need a second NAM block to act as the related NAM block.
126     0633 1
127     0634 1 | own
128     0635 1 |     own_described_buffer(expanded_spec,nam$c_maxrss),
129     0636 1 |     related_resultant_spec: block[nam$c_maxrss,byte],
130     0637 1 |     related_expanded_spec: block[nam$c_maxrss,byte],
131     0638 1
132     P 0639 1 |     related_nam: $nam(esa=related_expanded_spec,
133     P 0640 1 |                         ess=nam$c_maxrss,
134     P 0641 1 |                         rsa=related_resultant_spec,
135     P 0642 1 |                         rss=nam$c_maxrss),
136     0643 1
137     P 0644 1 |     report_nam: $nam(rlf=related_nam,
138     P 0645 1 |                         esa=expanded_spec+8,
```

```
139      0646 1           ess=nam$c_maxrss),  
140      0647 1  
141      0648 1           own_described_buffer(report_file_spec,nam$c_maxrss),  
142      0649 1  
143      P 0650 1           report_fab: $fab(fac=put,  
144      P 0651 1               fop=ofp,  
145      P 0652 1               nam=report_nam,  
146      P 0653 1               org=seq,  
147      P 0654 1               rat=cr,  
148      0655 1               rfm=var),  
149      0656 1  
150      P 0657 1           report_rab: $rab(fab=report_fab,  
151      0658 1               rac=seq);  
152      0659 1  
153      0660 1           ! The following variables are needed to format the report.  
154      0661 1  
155      0662 1           own  
156      0663 1               generating_report: byte,  
157      0664 1               report_heading_msg: long,  
158      0665 1               own_described_buffer(input_file_spec,nam$c_maxrss),  
159      0666 1               page_number: long,  
160      0667 1               line_counter: signed long;  
161      0668 1  
162      0669 1           ! We need some variables for keeping track of errors. One tells us where  
163      0670 1           ! the analysis report is going. We also count the number of errors.  
164      0671 1  
165      0672 1           own  
166      0673 1               report_to_file: byte,  
167      0674 1               error_count: long initial(0);
```

```
169 0575 1 %sbttl 'ANL$PREPARE_REPORT_FILE - Prepare Report File'
170 0676 1 ++
171 0677 1 Functional Description:
172 0678 1 This routine is called whenever we begin the analysis of a new
173 0679 1 file. On the first call, it creates a report file to receive
174 0680 1 the analysis. On subsequent calls, if any, it just starts a new
175 0681 1 report in the file.
176 0682 1
177 0683 1 Formal Parameters:
178 0684 1 heading_msg An optional message code specifying the report
179 0685 1 page heading message.
180 0686 1 input_spec The resultant spec of the input file we are analyzing.
181 0687 1
182 0688 1 Implicit Inputs:
183 0689 1 global data
184 0690 1
185 0691 1 Implicit Outputs:
186 0692 1 global data
187 0693 1
188 0694 1 Returned Value:
189 0695 1 none
190 0696 1
191 0697 1 Side Effects:
192 0698 1
193 0699 1 --
194 0700 1
195 0701 1
196 0702 2 global routine anl$prepare_report_file(heading_msg,input_spec): novalue = begin
197 0703 2
198 0704 2 bind
199 0705 2 input_spec_dsc = .input_spec: descriptor;
200 0706 2
201 0707 2 own
202 0708 2 first_call: byte initial(true);
203 0709 2
204 0710 2 local
205 0711 2 status: long;
206 0712 2
207 0713 2
208 0714 2
209 0715 2 ! Save the input file spec for use in the report page headings.
210 0716 2
211 0717 2 input_file_spec[len] = .input_spec_dsc[len];
212 0718 2 ch$move(.input_spec_dsc[len],.input_spec_dsc[ptr], .input_file_spec[ptr]);
213 0719 2
214 0720 2 ! See if we are to generate a report. If not, we can just leave.
215 0721 2
216 0722 2 generating_report = cli$present(describe('OUTPUT'));
217 0723 2 if not .generating_report then
218 0724 2     return;
219 0725 2
220 0726 2 ! If this is the first call, then we need to create the report file and
221 0727 2 ! prepare for one or more analysis reports.
222 0728 2
223 0729 2 if .first_call then (
224 0730 2
225 0731 3     ! We begin by obtaining the value of the /OUTPUT qualifier. This will
```

8 2

```
226 0732 3      ! tell us the name of the desired report file. Trim the name for use
227 0733 3      ! in error messages.
228 0734 3
229 0735 3      report_to_file = cli$get_value(describe('OUTPUT'),report_file_spec);
230 0736 3      str$trim(report_file_spec,report_file_spec,report_file_spec);
231 0737 3
232 0738 3      ! Now we split up depending on the mode of operation.
233 0739 3
234 0740 3      selectoneu .anl$gb_mode of set
235 0741 3
236 0742 3
237 0743 3      [anl$k_check,
238 0744 3      anl$k_statistics,
239 0745 3      anl$k_summary]:
240 0746 3
241 0747 3      ! In these modes, the user specifies the name of the
242 0748 3      ! report file, and we use ANALYZE.ANL as the defaults.
243 0749 3      ! If the user didn't include a value on the /OUTPUT qualifier,
244 0750 3      ! then we just put the report on the terminal.
245 0751 4      if .report_to_file then (
246 0752 4          report_fab[fab$l_fna] = .report_file_spec[ptr];
247 0753 4          report_fab[fab$b_fns] = .report_file_spec[len];
248 0754 4          report_fab[fab$l_dna] = uplit byte('ANALYZE.ANL');
249 0755 4          report_fab[fab$b_dns] = 11;
250 0756 4      ) else (
251 0757 4          report_fab[fab$l_fna] = uplit byte('SYSS$OUTPUT');
252 0758 4          report_fab[fab$b_fns] = 10;
253 0759 3
254 0760 3
255 0761 3      [anl$k_fdl]:
256 0762 3
257 0763 3
258 0764 3      ! In this mode, the user specifies the name of the FDL
259 0765 3      ! file, we use .FDL as the default, and we use a related
260 0766 3      ! name equal to the input file spec. This produces the
261 0767 3      ! standard related name situation where the output file
262 0768 3      ! has the same name as the input file.
263 0769 3
264 0770 3      ! To parse the input file name, we use the report FAB
265 0771 3      ! temporarily so we can do a $PARSE and a $SEARCH into
266 0772 3      ! the related NAM block.
267 0773 4      (report_fab[fab$l_fna] = .input_spec_dsc[ptr];
268 0774 4      report_fab[fab$b_fns] = .input_spec_dsc[len];
269 0775 4      report_fab[fab$l_nam] = related_nam;
270 0776 4      status = $parse(fab=report_fab);
271 0777 4      check (.status, .status);
272 0778 4      status = $search(fab=report_fab);
273 0779 4      check (.status, .status);
274 0780 4
275 0781 4      ! Now we can set up the blocks for creation of the report file.
276 0782 4      ! The FAB specifies output file parse, as required.
277 0783 4
278 0784 4      report_fab[fab$l_fna] = .report_file_spec[ptr];
279 0785 4      report_fab[fab$b_fns] = .report_file_spec[len];
280 0786 4      report_fab[fab$l_dna] = uplit byte('.FDL');
281 0787 4      report_fab[fab$b_dns] = 4;
282 0788 3      report_fab[fab$l_nam] = report_nam;);
```

```

283 0789 3
284 0790 3
285 0791 3
286 0792 3
287 0793 3
288 0794 3
289 0795 3
290 0796 3
291 0797 4
292 0798 4
293 0799 4
294 0800 4
295 0801 4
296 0802 3
297 0803 3
298 0804 3
299 0805 3
300 0806 3
301 0807 3
302 0808 3
303 0809 3
304 0810 3
305 0811 3
306 0812 3
307 0813 3
308 0814 3
309 0815 3
310 0816 3
311 0817 3
312 0818 3
313 0819 3
314 0820 2
315 0821 2
316 0822 2
317 0823 2
318 0824 2
319 0825 2
320 0826 2
321 0827 2
322 0828 2
323 0829 1

[anl$K_interactive]:
    ! In this mode, the user specifies the name of the
    transcript file, and we use ANALYZE.ANL as the defaults.
    ! If the user didn't include a value on the /OUTPUT qualifier,
    ! then we don't produce a transcript.

    if .report_to_file then (
        report_fab[fab$l_fna] = .report_file_spec[ptr];
        report_fab[fab$b_fns] = .report_file_spec[len];
        report_fab[fab$l_dna] = uplit byte('ANALYZE.ANL');
        report_fab[fab$b_dns] = 11;
    ) else
        return;

    ! Now we can create the report file and connect the RAB.

    status = $create(fab=report_fab);
    expanded_spec[len] = .report_name[nam$b_esl];
    check (.status, anlrm;$_openout,1,expanded_spec,.status,.report_fab[fab$l_stv]);
    status = $connect(rat=report_rab);
    check (.status, .status);

    ! Save the heading message code.

    report_heading_msg = .heading_msg;
    first_call = false;
);

! Begin the report by resetting the page number and starting a new page.

page_number = 0;
anl$report_page();

return;
end;

```

```
.TITLE RMSREPORT RMSREPORT - Handle Output for ANALYZE
/RMS_FILE
.IDENT \V04-000\

.PSECT $SPLIT$,NOWRT,NOEXE,2

.ASCII \OUTPUT\
.BLKB 2
.LONG 6
.ADDRESS P.AAB
.ASCII \OUTPUT\
.BLKB 2
.LONG 6
.ADDRESS P.AAD
```

D 2
4C 4E 41 2E 45 5A 59 4C 41 4E 41 00020 P.AAE: .ASCII \ANALYZE.ANL\
54 55 50 54 55 4F 24 53 59 53 0002B P.AAF: .ASCII \SYSSOUTPUT\
4C 44 46 2E 00035 P.AAG: .ASCII \FDL\
4C 4E 41 2E 45 5A 59 4C 41 4E 41 00039 P.AAH: .ASCII \ANALYZE.ANL\
.PSECT \$OWNS,NOEXE,2
000000FF 00000 EXPANDED_SPEC:
00000000' 00004 .LONG 255
00008 .ADDRESS EXPANDED_SPEC+8
00107 .BLKB 255
00108 RELATED_RESULTANT_SPEC:
00207 .BLKB 1
00208 RELATED_EXPANDED_SPEC:
00307 .BLKB 255
00308 RELATED_NAM:
02 00308 RELATED_NAM:
60 00309 .BYTE 2
FF 0030A .BYTE 96
00 0030B .BYTE -1
00000000' 0030C .ADDRESS RELATED_RESULTANT_SPEC
00 00310 .BYTE 0
00 00311 .BYTE 0
FF 00312 .BYTE -1
00 00313 .BYTE 0
00000000' 00314 .ADDRESS RELATED_EXPANDED_SPEC
00000000 00318 .LONG 0
0000# 0031C .WORD 0[8]
0000# 0032C .WORD 0[3]
0000# 00332 .WORD 0[3]
00000000 00338 .LONG 0
00000000 0033C .LONG 0
00 00340 .BYTE 0
00 00341 .BYTE 0
00 00342 .BYTE 0
00 00343 .BYTE 0
00 00344 .BYTE 0
00 00345 .BYTE 0
00# 00346 .BYTE 0[2]
00000000 00348 .LONG 0
00000000 0034C .LONG 0
00000000 00350 .LONG 0
00000000 00354 .LONG 0
00000000 00358 .LONG 0
00000000 0035C .LONG 0
00000000# 00360 .LONG 0[2]
02 00368 REPORT_NAM:
60 00369 .BYTE 2
00 0036A .BYTE 96
00 0036B .BYTE 0
00000000 0036C .LONG 0
00 00370 .BYTE 0
00 00371 .BYTE 0

FF	00372	.BYTE	-1
00	00373	.BYTE	0
00000000	00374	.ADDRESS	EXPANDED_SPEC+8
00000000	00378	.ADDRESS	RELATED_NAM
0000#	0037C	.WORD	0[8]
0000#	0038C	.WORD	0[3]
0000#	00392	.WORD	0[3]
00000000	00398	.LONG	0
00000000	0039C	.LONG	0
00	003A0	.BYTE	0
00	003A1	.BYTE	0
00	003A2	.BYTE	0
00	003A3	.BYTE	0
00	003A4	.BYTE	0
00	003A5	.BYTE	0
00#	003A6	.BYTE	0[2]
00000000	003A8	.LONG	0
00000000	003AC	.LONG	0
00000000	003B0	.LONG	0
00000000	003B4	.LONG	0
00000000	003B8	.LONG	0
00000000	003BC	.LONG	0
00000000#	003C0	.LONG	0[2]
000000FF	003C8	REPORT_FILE_SPEC:	
00000000	003CC	.LONG	255
00000000	003D0	.ADDRESS	REPORT_FILE_SPEC+8
004CF	003D0	.BLKB	255
004CF	00400	.BLKB	1
03	004D0	REPORT_FAB:	
50	004D1	.BYTE	3
0000	004D2	.WORD	80
20000000	004D4	.LONG	536870912
00000000	004D8	.LONG	0
00000000	004DC	.LONG	0
00000000	004E0	.LONG	0
0000	004E4	.WORD	0
01	004E6	.BYTE	1
00	004E7	.BYTE	0
00000000	004E8	.LONG	0
00	004EC	.BYTE	0
00	004ED	.BYTE	0
02	004EE	.BYTE	2
02	004EF	.BYTE	2
00000000	004F0	.LONG	0
00000000	004F4	.LONG	0
00000000	004F8	.ADDRESS	REPORT_NAM
00000000	004FC	.LONG	0
00000000	00500	.LONG	0
00	00504	.BYTE	0
00	00505	.BYTE	0
0000	00506	.WORD	0
00000000	00508	.LONG	0
0000	0050C	.WORD	0
00	0050E	.BYTE	0
00	0050F	.BYTE	0
00000000	00510	.LONG	0

00000000 00514 .LONG 0
0000 00518 .WORD 0
00 0051A .BYTE 0
00 0051B .BYTE 0
00000000 0051C .LONG 0
01 00520 REPORT_RAB:
44 00521 .BYTE 1
0000 00522 .WORD 0
00000000 00524 .LONG 0
00000000 00528 .LONG 0
00000000 0052C .LONG 0
0000# 00530 .WORD 0[3]
0000 00536 .WORD 0
00000000 00538 .LONG 0
0000 0053C .WORD 0
00 0053E .BYTE 0
00 0053F .BYTE 0
0000 00540 .WORD 0
0000 00542 .WORD 0
00000000 00544 .LONG 0
00000000 00548 .LONG 0
00000000 0054C .LONG 0
00000000 00550 .LONG 0
00 00554 .BYTE 0
00 00555 .BYTE 0
00 00556 .BYTE 0
00 00557 .BYTE 0
00000000 00558 .LONG 0
00000000 0055C .ADDRESS REPORT_FAB
00000000 00560 .LONG 0
00564 GENERATING REPORT:
.BLKB 1
00565 .BLKB 3
00568 REPORT_HEADING_MSG:
.BLKB 4
000000FF 0056C INPUT_FILE_SPEC:
.LONG 255
00000000 00570 .ADDRESS INPUT_FILE_SPEC+8
00574 .BLKB 255
00673 .BLKB 1
00674 PAGE_NUMBER:
.BLKB 4
00678 LINE_COUNTER:
.BLKB 4
0067C REPORT_TO_FILE:
.BLKB 1
00000000 0067D .BLKB 3
00000000 00680 ERROR_COUNT:
.LONG 0
01 00684 FIRST_CALL:
.BYTE 1
.EXTRN ANLRMSS_OK, ANLRMSS_ALLOC
.EXTRN ANLRMSS_ANYTHING
.EXTRN ANLRMSS_BACKUP, ANLRMSS_BKT
.EXTRN ANLRMSS_BKTAREA

.EXTRN ANLRMSS_BKTCHECK
.EXTRN ANLRMSS_BKTFLAGS
.EXTRN ANLRMSS_BKTFREE
.EXTRN ANLRMSS_BKTKEY, ANLRMSS_BKTLEVEL
.EXTRN ANLRMSS_BKTNEXT
.EXTRN ANLRMSS_BKTPTRSIZE
.EXTRN ANLRMSS_BKTRECID
.EXTRN ANLRMSS_BKTRECIDS
.EXTRN ANLRMSS_BKTSAMPLE
.EXTRN ANLRMSS_BKTVBNFREE
.EXTRN ANLRMSS_BUCKETSIZE
.EXTRN ANLRMSS_CELL, ANLRMSS_CELLDATA
.EXTRN ANLRMSS_CELLFLAGS
.EXTRN ANLRMSS_CHECKHDG
.EXTRN ANLRMSS_CONTIG, ANLRMSS_CREATION
.EXTRN ANLRMSS_CTLSIZE
.EXTRN ANLRMSS_DATAREC
.EXTRN ANLRMSS_DATABKTBN
.EXTRN ANLRMSS_DUMPHEADER
.EXTRN ANLRMSS_EOF, ANLRMSS_ERRORCOUNT
.EXTRN ANLRMSS_ERRNONE
.EXTRN ANLRMSS_ERRORS, ANLRMSS_EXPIRATION
.EXTRN ANLRMSS_FILEATTR
.EXTRN ANLRMSS_FILEHDR
.EXTRN ANLRMSS_FILEID, ANLRMSS_FILEORG
.EXTRN ANLRMSS_FILESPEC
.EXTRN ANLRMSS_FLAG, ANLRMSS_GLOBALBUFS
.EXTRN ANLRMSS_HEXDATA
.EXTRN ANLRMSS_HEXHEADER1
.EXTRN ANLRMSS_HEXHEADER2
.EXTRN ANLRMSS_IDXAREA
.EXTRN ANLRMSS_IDXAREAALLOC
.EXTRN ANLRMSS_IDXAREABKT
.EXTRN ANLRMSS_IDXAREANEXT
.EXTRN ANLRMSS_IDXAREANOALLOC
.EXTRN ANLRMSS_IDXAREAQTY
.EXTRN ANLRMSS_IDXAREARECL
.EXTRN ANLRMSS_IDXAREAUSED
.EXTRN ANLRMSS_IDXKEY, ANLRMSS_IDXKEYAREAS
.EXTRN ANLRMSS_IDXKEYBKT
.EXTRN ANLRMSS_IDXKEYBYTES
.EXTRN ANLRMSS_IDXKEY1TYPE
.EXTRN ANLRMSS_IDXKEYDATA
.EXTRN ANLRMSS_IDXKEYFILE
.EXTRN ANLRMSS_IDXKEYFLAGS
.EXTRN ANLRMSS_IDXKEYKEYSZ
.EXTRN ANLRMSS_IDXKEYNAME
.EXTRN ANLRMSS_IDXKEYNEXT
.EXTRN ANLRMSS_IDXKEYMINREC
.EXTRN ANLRMSS_IDXKEYNULL
.EXTRN ANLRMSS_IDXKEYPOSS
.EXTRN ANLRMSS_IDXKEYROOTLVL
.EXTRN ANLRMSS_IDXKEYROOTBN
.EXTRN ANLRMSS_IDXKEYSEGS
.EXTRN ANLRMSS_IDXKEYSIZES
.EXTRN ANLRMSS_IDXPRIMREC
.EXTRN ANLRMSS_IDXPRIMRECFLAGS

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS FILE
ANL\$PREPARE_REPORT_FILE - Prepare Report File

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.EXTRN ANLRMSS_IDXPRIMRECID
.EXTRN ANLRMSS_IDXPRIMRECLEN
.EXTRN ANLRMSS_IDXPRIMRECRV
.EXTRN ANLRMSS_IDXPROAREAS
.EXTRN ANLRMSS_IDXPROLOG
.EXTRN ANLRMSS_IDXREC, ANLRMSS_IDXRECPTR
.EXTRN ANLRMSS_IDXSIDR
.EXTRN ANLRMSS_IDXSIDRUPCNT
.EXTRN ANLRMSS_IDXSIDRFLAGS
.EXTRN ANLRMSS_IDXSIDRRECID
.EXTRN ANLRMSS_IDXSIDRPTRFLAGS
.EXTRN ANLRMSS_IDXSIDRPTRREF
.EXTRN ANLRMSS_INTERCOMMAND
.EXTRN ANLRMSS_INTERHDG
.EXTRN ANLRMSS_LONGREC
.EXTRN ANLRMSS_MAXRECSIZE
.EXTRN ANLRMSS_NOBACKUP
.EXTRN ANLRMSS_NOEXPIRATION
.EXTRN ANLRMSS_NOSPANFILLER
.EXTRN ANLRMSS_PERFORM
.EXTRN ANLRMSS_PROLOGFLAGS
.EXTRN ANLRMSS_PROLOGVER
.EXTRN ANLRMSS_PROT, ANLRMSS_RECATTR
.EXTRN ANLRMSS_RECFT, ANLRMSS_RECLAIMBKT
.EXTRN ANLRMSS_RELBUCKET
.EXTRN ANLRMSS_RELEOFVBN
.EXTRN ANLRMSS_RELMAXREC
.EXTRN ANLRMSS_RELPROLOG
.EXTRN ANLRMSS_RELIAB, ANLRMSS_REVISION
.EXTRN ANLRMSS_STATHDG
.EXTRN ANLRMSS_SUMMARYHDG
.EXTRN ANLRMSS_OWNERUIC
.EXTRN ANLRMSS_JNL, ANLRMSS_AIJNL
.EXTRN ANLRMSS_BIJNL, ANLRMSS_ATJNL
.EXTRN ANLRMSS_ATTOP, ANLRMSS_BADCMD
.EXTRN ANLRMSS_BADPATH
.EXTRN ANLRMSS_BADVBN, ANLRMSS_DOWNHELP
.EXTRN ANLRMSS_DOWNPATH
.EXTRN ANLRMSS_EMPTYBKT
.EXTRN ANLRMSS_NODATA, ANLRMSS_NODOWN
.EXTRN ANLRMSS_NONEXT, ANLRMSS_NORECLAIMED
.EXTRN ANLRMSS_NORECS, ANLRMSS_NORRV
.EXTRN ANLRMSS_RESTDONE
.EXTRN ANLRMSS_STACKFULL
.EXTRN ANLRMSS_UNINITINDEX
.EXTRN ANLRMSS_FDLIDENT
.EXTRN ANLRMSS_FDLSYSTEM
.EXTRN ANLRMSS_FDLSOURCE
.EXTRN ANLRMSS_FDLFILE
.EXTRN ANLRMSS_FDLALLOC
.EXTRN ANLRMSS_FDLNOALLOC
.EXTRN ANLRMSS_FDLBESTTRY
.EXTRN ANLRMSS_FDLBUCKETSIZE
.EXTRN ANLRMSS_FDLCLUSTERSIZE
.EXTRN ANLRMSS_FDLCONTIG
.EXTRN ANLRMSS_FDLEXTENSION
.EXTRN ANLRMSS_FDLGLOBALBUFS

.EXTRN ANLRMSS_FDLMAXRECORD
.EXTRN ANLRMSS_FDLFILENAME
.EXTRN ANLRMSS_FDLORG ANLRMSS_FDLOWNER
.EXTRN ANLRMSS_FDLPROTECTION
.EXTRN ANLRMSS_FDLRECORD
.EXTRN ANLRMSS_FDLSPAN
.EXTRN ANLRMSS_FDLCC, ANLRMSS_FDLVFCSIZE
.EXTRN ANLRMSS_FDLFORMAT
.EXTRN ANLRMSS_FDLSIZE
.EXTRN ANLRMSS_FDLAREA
.EXTRN ANLRMSS_FDLKEY, ANLRMSS_FDLCHANGES
.EXTRN ANLRMSS_FDLDATAAREA
.EXTRN ANLRMSS_FDLDATAFILL
.EXTRN ANLRMSS_FDLDATAKEYCOMP
.EXTRN ANLRMSS_FDLDATARECCOMP
.EXTRN ANLRMSS_FLDLUPS
.EXTRN ANLRMSS_FDLINDEXAREA
.EXTRN ANLRMSS_FDLINDEXCOMP
.EXTRN ANLRMSS_FDLINDEXFILL
.EXTRN ANLRMSS_FDLINDEX1AREA
.EXTRN ANLRMSS_FDLKEYNAME
.EXTRN ANLRMSS_FDLNORECS
.EXTRN ANLRMSS_FDLNULLKEY
.EXTRN ANLRMSS_FDLNULLVALUE
.EXTRN ANLRMSS_FDLPROLOG
.EXTRN ANLRMSS_FDLSEGLENGTH
.EXTRN ANLRMSS_FDLSEGPOS
.EXTRN ANLRMSS_FDLSEGTYPE
.EXTRN ANLRMSS_FDLANALAREA
.EXTRN ANLRMSS_FDLRECL
.EXTRN ANLRMSS_FDLANALKEY
.EXTRN ANLRMSS_FDLDATAKEYCOMP
.EXTRN ANLRMSS_FDLDATARECCOMP
.EXTRN ANLRMSS_FDLDATARECS
.EXTRN ANLRMSS_FDLDATASPACE
.EXTRN ANLRMSS_FDLDEPTH
.EXTRN ANLRMSS_FLDLUPS PER
.EXTRN ANLRMSS_FDLIDXCOMP
.EXTRN ANLRMSS_FDLIDXFILL
.EXTRN ANLRMSS_FDLIDXSPACE
.EXTRN ANLRMSS_FDLIDX1RECS
.EXTRN ANLRMSS_FDLDATALENMEAN
.EXTRN ANLRMSS_FDLIDXLENMEAN
.EXTRN ANLRMSS_STATAREA
.EXTRN ANLRMSS_STATRECL
.EXTRN ANLRMSS_STATKEY
.EXTRN ANLRMSS_STATDEPTH
.EXTRN ANLRMSS_STATIDX1RECS
.EXTRN ANLRMSS_STATIDXLENMEAN
.EXTRN ANLRMSS_STATIDXSPACE
.EXTRN ANLRMSS_STATIDXFILL
.EXTRN ANLRMSS_STATIDXCOMP
.EXTRN ANLRMSS_STATDATARECS
.EXTRN ANLRMSS_STATDUPS PER
.EXTRN ANLRMSS_STATDATALENMEAN
.EXTRN ANLRMSS_STATDATASPACE
.EXTRN ANLRMSS_STATDATAFILL

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS FILE
ANL\$PREPARE_REPORT_FILE - Prepare Report File

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.EXTRN ANLRMSS\$-STATDATAKEYCOMP
.EXTRN ANLRMSS\$-STATDATARECCOMP
.EXTRN ANLRMSS\$-STATEFFICIENCY
.EXTRN ANLRMSS\$-BADAREA1ST2
.EXTRN ANLRMSS\$-BADAREABKTSIZE
.EXTRN ANLRMSS\$-BADAREAFLT
.EXTRN ANLRMSS\$-BADAREAID
.EXTRN ANLRMSS\$-BADAREANEXT
.EXTRN ANLRMSS\$-BADAREAROOT
.EXTRN ANLRMSS\$-BADAREAUSED
.EXTRN ANLRMSS\$-BADBKTAREAID
.EXTRN ANLRMSS\$-BADBKTCHECK
.EXTRN ANLRMSS\$-BADBKTFREE
.EXTRN ANLRMSS\$-BADBKTKEYID
.EXTRN ANLRMSS\$-BADBKTLEVEL
.EXTRN ANLRMSS\$-BADBKTROOTBIT
.EXTRN ANLRMSS\$-BADBKTSAMPLE
.EXTRN ANLRMSS\$-BADCELLFIT
.EXTRN ANLRMSS\$-BADCHECKSUM
.EXTRN ANLRMSS\$-BADDATARECBITS
.EXTRN ANLRMSS\$-BADDATARECFIT
.EXTRN ANLRMSS\$-BADDATARECP
.EXTRN ANLRMSS\$-BAD3IDXKEYFIT
.EXTRN ANLRMSS\$-BADIDXLASTKEY
.EXTRN ANLRMSS\$-BADIDXORDER
.EXTRN ANLRMSS\$-BADIDXRECBITS
.EXTRN ANLRMSS\$-BADIDXRECFIT
.EXTRN ANLRMSS\$-BADIDXRECP
.EXTRN ANLRMSS\$-BADKEYAREAID
.EXTRN ANLRMSS\$-BADKEYDATABKT
.EXTRN ANLRMSS\$-BADKEYDATAFIT
.EXTRN ANLRMSS\$-BADKEYDATATYPE
.EXTRN ANLRMSS\$-BADKEYIDX BKT
.EXTRN ANLRMSS\$-BADKEYFILL
.EXTRN ANLRMSS\$-BADKEYFIT
.EXTRN ANLRMSS\$-BADKEYREF ID
.EXTRN ANLRMSS\$-BADKEYROOTLEVEL
.EXTRN ANLRMSS\$-BADKEYSEGCOUNT
.EXTRN ANLRMSS\$-BADKEYSEGVEC
.EXTRN ANLRMSS\$-BADKEYSUMMARY
.EXTRN ANLRMSS\$-BADREADNOPAR
.EXTRN ANLRMSS\$-BADREADPAR
.EXTRN ANLRMSS\$-BADSIDRDUPT
.EXTRN ANLRMSS\$-BADSIDRPTRFIT
.EXTRN ANLRMSS\$-BADSIDRPTRSZ
.EXTRN ANLRMSS\$-BADSIDRSIZE
.EXTRN ANLRMSS\$-BADSTREAMEOF
.EXTRN ANLRMSS\$-BADVBNFREE
.EXTRN ANLRMSS\$-BKTLLOOP
.EXTRN ANLRMSS\$-EXTENDER
.EXTRN ANLRMSS\$-FLAGERROR
.EXTRN ANLRMSS\$-MISSINGBKT
.EXTRN ANLRMSS\$-NOTOK, ANLRMSS\$_SPANERROR
.EXTRN ANLRMSS\$-TOOMANYRECS
.EXTRN ANLRMSS\$-UNWIND, ANLRMSS\$_VFCTOOSHORT
.EXTRN ANLRMSS\$-CACHEFULL
.EXTRN ANLRMSS\$_CACHERELFAIL

000000000G	66	0108	52	DD 000BF	PUSHL	STATUS	
	00		01	FB 000C1	CALLS	#1, LIB\$SIGNAL	0778
	52		C7	9F 000C4	PUSHAB	REPORT_FAB	
	05		50	DO 000CF	CALLS	#1, SY5\$SEARCH	0779
	68		52	E8 000D2	MOVL	RO, STATUS	
0134	C7	04	52	DD 000D5	BLBS	STATUS, 78	
013C	C7		01	FB 000D7	PUSHL	STATUS	
0138	C7	2D	A7	DO 000DA	CALLS	#1, LIB\$SIGNAL	0784
013D	C7		67	90 000E0	MOVL	REPORT_FILE_SPEC+4, REPORT_FAB+44	0785
0130	C7	A0	A9	9E 000E5	MOVAB	REPORT_FILE_SPEC, REPORT_FAB+52	0786
			04	90 000EB	MOVAB	P.AAG, REPORT_FAB+48	0787
			A7	9E 000FO	MOVAB	#4, REPORT_FAB+53	0788
	03		20	11 000F6	BRB	REPORT_NAM, REPORT_FAB+40	0789
			50	91 000F8	CMPB	11\$	0740
			1B	12 000FB	BNEQ	RO, #3	0790
0134	68	0284	C7	E9 000FD	BLBC	11\$	
013C	C7	04	A7	DO 00102	MOVL	REPORT_TO_FILE, 15\$	0797
0138	C7		67	90 00108	MOVAB	REPORT_FILE_SPEC+4, REPORT_FAB+44	0798
013D	C7	31	A9	9E 0010D	MOVAB	REPORT_FILE_SPEC, REPORT_FAB+52	0799
			0B	90 00113	MOVAB	P.AAH, REPORT_FAB+48	0800
000000000G	00	0108	C7	9F 00118	10\$:	#11, REPORT_FAB+53	0801
	52		01	FB 0011C	11\$:	REPORT_FAB	0809
FC38	C7	AB	50	DO 00123	CALLS	#1, SY5\$CREATE	
	15		A7	9B 00126	MOVL	RO, STATUS	
			52	E8 0012C	MOVZBW	REPORT_NAM+11, EXPANDED_SPEC	0810
		0114	C7	DD 0012F	BLBS	STATUS, 12\$	0811
			52	DD 00133	PUSHL	REPORT_FAB+12	
		FC38	C7	9F 00135	PUSHL	STATUS	
			01	DD 00139	PUSHAB	EXPANDED_SPEC	
	68	00B110A4	8F	DD 0013B	PUSHL	#1	
			05	FB 00141	CALLS	#11604132	
000000000G	00	0158	C7	9F 00144	12\$:	#5, LIB\$SIGNAL	0812
	52		01	FB 00148	PUSHAB	REPORT_RAB	
	05		50	DO 0014F	CALLS	#1, SY5\$CONNECT	
	68		52	E8 00152	MOVL	RO, STATUS	0813
01A0	C7	04	52	DD 00155	BLBS	STATUS, 13\$	
		028C	01	FB 00157	PUSHL	STATUS	
		02AC	AC	DO 0015A	CALLS	#1, LIB\$SIGNAL	0817
0000V	CF		C7	94 00160	MOVL	HEADING_MSG, REPORT_HEADING_MSG	0819
			C7	D4 00164	CLRB	FIRST_CALL	0824
			00	FB 00168	CLRL	PAGE_NUMBER	0825
			04	0016D	RET	#0, ANL\$REPORT_PAGE	0829

: Routine Size: 366 bytes, Routine Base: \$CODES + 0000

```
325 0830 1 %sbttl 'ANL$REPORT_PAGE - Eject Page in Report'  
326 0831 1 ++  
327 0832 1 Functional Description:  
328 0833 1 This routine is called to eject the page in a report and print  
329 0834 1 the heading on the new page.  
330 0835 1  
331 0836 1 Formal Parameters:  
332 0837 1 none  
333 0838 1  
334 0839 1 Implicit Inputs:  
335 0840 1 global data  
336 0841 1  
337 0842 1 Implicit Outputs:  
338 0843 1 global data  
339 0844 1  
340 0845 1 Returned Value:  
341 0846 1 none  
342 0847 1  
343 0848 1 Side Effects:  
344 0849 1  
345 0850 1 --  
346 0851 1  
347 0852 1  
348 0853 2 global routine anl$report_page: novalue = begin  
349 0854 2  
350 0855 2  
351 0856 2 ! Since we are starting a new page, reset the line counter.  
352 0857 2  
353 0858 2 line_counter = lib$lp_lines() - 7;  
354 0859 2  
355 0860 2 ! Now we can eject and print the heading line. Don't do this if the  
356 0861 2 ! current heading message is zero - page headers are not desired.  
357 0862 2  
358 0863 3 if .report heading_msg nequ 0 then (  
359 0864 3     anl$format_line(-1,0,anlrms$anything,describe(%char(formfeed)));  
360 0865 3  
361 0866 3     increment (page_number);  
362 0867 3     anl$format_line(-1,0,.report_heading_msg,0,.page_number);  
363 0868 3     anl$format_line(-1,0,anlrms$anything,input_file_spec);  
364 0869 3     anl$format_skip(-1);  
365 0870 3     anl$format_skip(-1);  
366 0871 2 ):  
367 0872 2  
368 0873 2 return;  
369 0874 2  
370 0875 1 end;
```

.PSECT SPLIT\$,NOWRT,NOEXE.2

0C 00044 P.AAJ:	.ASCII <12>
00045	.BLKB 3
00000001 00048 P.AAI:	.LONG 1
00000000 0004C	.ADDRESS P.AAJ

				.PSECT	SCODE\$,NOWRT,2	
				.ENTRY	ANL\$REPORT_PAGE, Save R2,R3	0853
				MOVAB	ANL\$FORMAT_LINE, R3	
				MOVL	MANLRMSS ANYTHING, R2	
				CALLS	#0, LIB\$[P_LINES	0858
				MOVAB	-7(R0), LINE COUNTER	
				TSTL	REPORT_HEADING_MSG	0863
				BEQL	1\$	
				PUSHAB	P_AAI	0864
				PUSHL	R2	
				CLRL	-(SP)	
				MNEGL	#1, -(SP)	
				CALLS	#4, ANL\$FORMAT_LINE	
				INCL	PAGE NUMBER	0866
				PUSHL	PAGE-NUMBER	0867
				CLRL	-(SPT)	
				PUSHL	REPORT_HEADING_MSG	
				CLRL	-(SP)	
				MNEGL	#1, -(SP)	
				CALLS	#5, ANL\$FORMAT_LINE	
				PUSHAB	INPUT_FILE_SPEC	0868
				PUSHL	R2	
				CLRL	-(SP)	
				MNEGL	#1, -(SP)	
				CALLS	#4, ANL\$FORMAT_LINE	
				MNEGL	#1, -(SP)	0869
				CALLS	#1, ANL\$FORMAT_SKIP	
				MNEGL	#1, -(SP)	0870
				CALLS	#1, ANL\$FORMAT_SKIP	
				RET		0875

: Routine Size: 100 bytes.

Routine Base: SCODE\$ + 016E

```
372 0876 1 %sbttl 'ANLSFORMAT_LINE - Format a Line of the Report'
373 0877 1 ++
374 0878 1 Functional Description:
375 0879 1 This routine is called to format a line and place it in the current
376 0880 1 report file. It also goes to the terminal if this is an interactive
377 0881 1 session.
378 0882 1
379 0883 1 Formal Parameters:
380 0884 1    widow_control    Controls widowing as follows:
381 0885 1        positive      specifies number of lines that
382 0886 1        must remain on the page.
383 0887 1        zero         doesn't matter how many lines.
384 0888 1        negative     Same as zero, but don't send
385 0889 1        the line to the screen.
386 0890 1    indent_level    The number of tab stops to indent the line.
387 0891 1    template_msg    The status code of the message defining the line
388 0892 1    template.
389 0893 1    fa01...        $FA0 arguments to fill into the message.
390 0894 1
391 0895 1 Implicit Inputs:
392 0896 1    global data
393 0897 1
394 0898 1 Implicit Outputs:
395 0899 1    global data
396 0900 1
397 0901 1 Returned Value:
398 0902 1    none
399 0903 1
400 0904 1 Side Effects:
401 0905 1
402 0906 1 --
403 0907 1
404 0908 1
405 0909 2 global routine anl$format_line(widow_control,indent_level,template_msg,fa01): novalue = begin
406 0910 2
407 0911 2 local
408 0912 2    status: long;
409 0913 2
410 0914 2
411 0915 2 ! If we aren't generating a report, then drop this line in the bit bucket.
412 0916 2
413 0917 2 if not .generating_report then
414 0918 2    return;
415 0919 2
416 0920 2 ! First we obtain the text of the template message.
417 0921 2
418 0922 2 begin
419 0923 2 local
420 0924 3    local_described_buffer(template_buf,nam$c_maxrss);
421 0925 3
422 P 0926 3 status = $getmsg(msgid=.template_msg,
423 P 0927 3           msglen=template_buf,
424 P 0928 3           bufadr=template_buf,
425 P 0929 3           flags=%b'0001');
426 0930 3 check (.status,,status);
427 0931 3
428 0932 3 ! Now we can plug the $FA0 arguments into the message template.
```

```
429 0933 3
430 0934 4 begin
431 0935 4 local
432 0936 4     local_described_buffer(result_buf,132);
433 0937 4
P 0938 4 status = $faol(ctrstr=template_buf,
435 0939 4             outlen=result_buf,
436 0940 4             outbuf=result_buf,
437 0941 4             prmlst=fao1);
438 0942 4 check (.status,.status);
439 0943 4
440 0944 4 ! Prefix the resulting text with enough tabs to effect the indentation.
441 0945 4
442 0946 4 ch$move(.result_buf[len],.result_buf[ptr], .result_buf[ptr]+.indent_level);
443 0947 4 result_buf[len] = .result_buf[len] + .indent_level;
444 0948 4 ch$fill(%char(tab), .indent_level,.result_buf[ptr]);
445 0949 4
446 0950 4 ! There are two cases for widow control. If zero, then only eject if we
447 0951 4 are out of lines. If positive, then eject if there are not said number
448 0952 4 of lines left on the page.
449 0953 4
450 0954 4 if (.widow_control leq 0 and .line_counter leq 0) or
451 0955 4 (.widow_control geq 1 and .line_counter lss .widow_control) then
452 0956 4     anl$report_page();
453 0957 4
454 0958 4 ! If there is a current report file, put the line into it. Also account
455 0959 4 ! for the line on the page.
456 0960 4
457 0961 5 if .report_rab[rab$w_isi] negu 0 then {
458 0962 5     report_rab[rab$w_rsz] = .result_buf[len];
459 0963 5     report_rab[rab$1_rbt] = .result_buf[ptr];
460 0964 5     status = $put(rab=report_rab);
461 0965 5     check (.status, anlrmss$ writeerr,1,report_file_spec,.status,.report_rab[rab$1_stv]);
462 0966 5     decrement (line_counter);
463 0967 4 }
464 0968 4
465 0969 4 ! If we are doing an interactive session, also put the line onto the screen.
466 0970 4 ! However, lines with widow control of -1 are not displayed.
467 0971 4
468 0972 5 if .anl$gb_mode eqiu anl$k_interactive and .widow_control geq 0 then (
469 0973 5     status = lib$put_output(result_buf);
470 0974 5     check (.status, .status);
471 0975 4 )
472 0976 4
473 0977 3 end;
474 0978 2 end;
475 0979 2
476 0980 2 return;
477 0981 2
478 0982 1 end;
```

.EXTRN SYSSGETMSG, SYSSFAOL
.EXTRN SYSSPUT

01FC 00000

.ENTRY ANL\$FORMAT_LINE, Save R2,R3,R4,R5,R6,R7,R8 : 0909

58	00000000G	00	9E	00002	MOVAB	LIB\$SIGNAL, R8		
57	0000'	CF	9E	00009	MOVAB	LINE_COUNTER, R7		
5E	FE6C	CE	9E	0000E	MOVAB	-404(TSP), SP		
01	FEEC	C7	E8	00013	BLBS	GENERATING_REPORT, 1\$		
			04	00018	RET		0917	
008C	CE	FF	8F	9A 00019	1\$:	MOVZBL	#255, TEMPLATE_BUF	0924
0090	CE	0094	CE	9E 0001F		MOVAB	TEMPLATE_BUF+8, TEMPLATE_BUF+4	0929
	7E		01	7D 00026		MOVQ	#1, -(SPT)	
		0094	CE	9F 00029		PUSHAB	TEMPLATE_BUF	
		0098	CE	9F 0002D		PUSHAB	TEMPLATE_BUF	
		0C	AC	DD 00031		PUSHL	TEMPLATE_MSG	
00000000G	00		05	FB 00034		CALLS	#5, SYSSGETMSG	
	56		50	DO 0003B		MOVL	RO, STATUS	
	05		56	E8 0003E		BLBS	STATUS, 2\$	0930
			56	DD 00041		PUSHL	STATUS	
	68		01	FB 00043		CALLS	#1, LIB\$SIGNAL	
	6E	84	8F	9A 00046	2\$:	MOVZBL	#132, RESULT_BUF	0936
04	AE	08	AE	9E 0004A		MOVAB	RESULT_BUF+8, RESULT_BUF+4	0941
		10	AC	9F 0004F		PUSHAB	FA01	
		04	AE	9F 00052		PUSHAB	RESULT_BUF	
		08	AE	9F 00055		PUSHAB	RESULT_BUF	
		0098	CE	9F 00058		PUSHAB	TEMPLATE_BUF	
00000000G	00		04	FB 0005C		CALLS	#4, SYSSFAOL	
	56		50	DO 00063		MOVL	RO, STATUS	
	05		56	E8 00066		BLBS	STATUS, 3\$	0942
			56	DD 00069		PUSHL	STATUS	
	68		01	FB 0006B		CALLS	#1, LIB\$SIGNAL	
50	04	AE	08	AC C1 0006E	3\$:	ADDL3	INDENT_LEVEL, RESULT_BUF+4, RO	0946
60	04	BE	6E	28 00074		MOVC3	RESULT_BUF, @RESULT_BUF+4, (RO)	0947
09	6E	08	AC	A0 00079		ADDW2	INDENT_LEVEL, RESULT_BUF	0948
		00	2C	0007D		MOVC5	#0, (SP), #9, INDENT_LEVEL, @RESULT_BUF+4	
		04	BE	00083				0954
	52	04	AC	DD 00085		MOVL	WIDOW_CONTROL, R2	
			04	14 00089		BGTR	4\$	
			67	D5 0008B		TSTL	LINE_COUNTER	
			09	15 0008D		BLEQ	5\$	
			52	D5 0008F	4\$:	TSTL	R2	0955
			0A	15 00091		BLEQ	6\$	
	52		67	D1 00093		CMPL	LINE_COUNTER, R2	
			05	18 00096		BGEQ	6\$	
FEFF	CF		00	FB 00098	5\$:	CALLS	#0, ANL\$REPORT_PAGE	0956
		FEAA	C7	B5 0009D	6\$:	TSTW	REPORT_RAB+2	0961
			33	13 000A1		BEQL	8\$	
FECA	C7		6E	B0 000A3		MOVW	RESULT_BUF, REPORT_RAB+34	0962
FED0	C7	04	AE	DO 000A8		MOVL	RESULT_BUF+4, REPORT_RAB+40	0963
00000000G	00	FEA8	C7	9F 000AE		PUSHAB	REPORT_RAB	0964
	56		01	FB 000B2		CALLS	#1, SYSSPUT	
	15		50	DO 000B9		MOVL	RO, STATUS	
			56	E8 000BC		BLBS	STATUS, 7\$	0965
			FEB4	C7 DD 000BF		PUSHL	REPORT_RAB+12	
				56 DD 000C3		PUSHL	STATUS	
			FD50	C7 9F 000C5		PUSHAB	REPORT_FILE_SPEC	
				01 DD 000C9		PUSHL	#1	
		00B110D4	8F	DD 000CB		PUSHL	#11604180	
	68		05	FB 000D1		CALLS	#5, LIB\$SIGNAL	0966
			67	D7 000D4	7\$:	DECL	LINE_COUNTER	0972
	03	0000G	CF	91 000D6	8\$:	CMPB	ANL\$GB_MODE, #3	

00000000G	00	18 12 000DB	BNEQ	9\$
	56	52 D5 000DD	TSTL	R2
	05	14 19 000DF	BLSS	9\$
	68	5E DD 000E1	PUSHL	SP
		01 FB 000E3	CALLS	#1. LIB\$PUT_OUTPUT
		50 D0 000EA	MOVL	R0, STATUS
		56 E8 000ED	BLBS	STATUS, 9\$
		56 DD 000F0	PUSHL	STATUS
		01 FB 000F2	CALLS	#1. LIB\$SIGNAL
		04 000F5 9\$:	RET	

0973

0974

0982

: Routine Size: 246 bytes. Routine Base: \$CODE\$ + 01D2

```

480 0983 1 %sbttl 'ANL$FORMAT_SKIP - Skip a Line in Report'
481 0984 1 ++
482 0985 1 Functional Description:
483 0986 1 This routine can be called to skip a line in the current report.
484 0987 1
485 0988 1 Formal Parameters:
486 0989 1 widow_control See ANL$FORMAT_LINE
487 0990 1
488 0991 1 Implicit Inputs:
489 0992 1 global data
490 0993 1
491 0994 1 Implicit Outputs:
492 0995 1 global data
493 0996 1
494 0997 1 Returned Value:
495 0998 1 none
496 0999 1
497 1000 1 Side Effects:
498 1001 1
499 1002 1 !--
500 1003 1
501 1004 1
502 1005 2 global routine anl$format_skip(widow_control): novalue = begin
503 1006 2
504 1007 2
505 1008 2 ! Just call FORMAT_LINE with a blank line.
506 1009 2
507 1010 2 anl$format_line(.widow_control,0,anlrms$$_anything,describe(''));
508 1011 2
509 1012 2 return;
510 1013 2
511 1014 1 end;

```

```

.PSECT SPLIT$,NOWRT,NOEXE,2
00050 P.AAL: .BLKB 0
00000000, 00050 P.AAK: .LONG 0
00000000, 00054 .ADDRESS P.AAL

```

```

.PSECT SCODE$,NOWRT,2
0000, 0000 0000 .ENTRY ANL$FORMAT_SKIP, Save nothing
0000000G CF 9F 00002 PUSHAB P.AAK
00000000, 00006 PUSHBL #ANLRMSS$_ANYTHING
0000000, 0000C CLRL -(SP)
04 AC DD 0000E PUSHBL WIDOW_CONTROL
04 FB 00011 CALLS #4, ANL$FORMAT_LINE
04 00016 RET

```

: Routine Size: 23 bytes, Routine Base: SCODE\$ + 02C8

1005
1010

1014

```
513 1015 1 %sbttl 'ANL$FORMAT_ERROR - Put Error Message in Report'
514 1016 1 ++
515 1017 1 Functional Description:
516 1018 1 This routine is called to format an error message into the report
517 1019 1 file.
518 1020 1
519 1021 1 Formal Parameters:
520 1022 1 error_msg      Status code for the error message.
521 1023 1 fao1...      $FAO substitution parameters for the message.
522 1024 1
523 1025 1 Implicit Inputs:
524 1026 1 global data
525 1027 1
526 1028 1 Implicit Outputs:
527 1029 1 global data
528 1030 1
529 1031 1 Returned Value:
530 1032 1 none
531 1033 1
532 1034 1 Side Effects:
533 1035 1 anl$worst_error may be set to a new condition value.
534 1036 1 error_count is incremented.
535 1037 1
536 1038 1 !--
537 1039 1
538 1040 1
539 1041 2 global routine anl$format_error(error_msg,fao1,fao2,fao3,fao4): novalue = begin
540 1042 2
541 1043 2 external
542 1044 2     anl$worst_error;
543 1045 2
544 1046 2 bind
545 1047 2     flag_string = describe('***  ');
546 1048 2
547 1049 2 builtin
548 1050 2     actualcount;
549 1051 2
550 1052 2 ! We case on the number of $FAO parameters and call ANL$FORMAT_LINE to
551 1053 2 do the work. In all cases, however, we add our own first parameter,
552 1054 2 which is the error message flag string.
553 1055 2
554 1056 2 case actualcount() from 1 to 5 of set
555 1057 2 [1]: anl$format_line(0,0..error_msg,flag_string);
556 1058 2 [2]: anl$format_line(0,0..error_msg,flag_string..fao1);
557 1059 2 [3]: anl$format_line(0,0..error_msg,flag_string..fao1..fao2);
558 1060 2 [4]: anl$format_line(0,0..error_msg,flag_string..fao1..fao2..fao3);
559 1061 2 [5]: anl$format_line(0,0..error_msg,flag_string..fao1..fao2..fao3..fao4);
560 1062 2 tes;
561 1063 2
562 1064 2 ! Keep track of the number of errors reported. Also keep track of
563 1065 2 ! most severe error which has occurred.
564 1066 2
565 1067 2 increment(error_count);
566 1068 2 if severity_level (.error_msg) gtr
567 1069 2     severity_level (.anl$worst_error)      ! If higher than watermark
568 1070 2 then anl$worst_error = .error_msg;      -then set new worst error
569 1071 2
```

```
570 1072 2 return;
571 1073 2
572 1074 1 end;
```

```
.PSECT SPLIT$,NOWRT,NOEXE,2
20 20 2A 2A 2A 00058 P.AAN: .ASCII \*** \
00000005 0005D .BLKB 3
00000000 00060 P.AAM: .LONG 5
00000000 00064 .ADDRESS P.AAN

FLAG_STRING= P.AAM
.EXTN ANL$WORST_ERROR

.PSECT SCODE$,NOWRT,2
002C 001F 04 0013 55 0000' 003C 00000 .ENTRY ANL$FORMAT_ERROR, Save R2,R3,R4,R5
54 FEF8 CF 9E 00002 MOVAB FLAG STRING, R5
52 04 AC DD 0000C MOVAB ANL$FORMAT_LINE, R4
01 6C 8F 00010 MOVL ERROR_MSG, R2
000A 00014 1$: CASEB (AP), #1, #4
003C 0001C .WORD 2$-1$,-
3$-1$,-
4$-1$,-
5$-1$,-
6$-1$,-

1041
1057
1056

64 24 BB 0001E 2$: PUSHR #^M<R2,R5>
7E 7C 00020 CLRQ -(SP)
04 FB 00022 CALLS #4, ANL$FORMAT_LINE
38 11 00025 BRB 7$ 1057
08 AC DD 00027 3$: PUSHL FA01
24 BB 0002A PUSHR #^M<R2,R5>
7E 7C 0002C CLRQ -(SP)
05 FB 0002E CALLS #5, ANL$FORMAT_LINE
2C 11 00031 BRB 7$ 1058
7E 08 AC 7D 00033 4$: MOVQ FA01, -(SP)
24 BB 00037 PUSHR #^M<R2,R5>
7E 7C 00039 CLRQ -(SP)
06 FB 0003B CALLS #6, ANL$FORMAT_LINE
1F 11 0003E BRB 7$ 1059
7E 08 AC 7D 00040 5$: MOVQ FA02, -(SP)
24 BB 00044 PUSHL FA01
7E 7C 00047 PUSHR #^M<R2,R5>
08 AC DD 00044 CLRQ -(SP)
07 FB 0004B CALLS #7, ANL$FORMAT_LINE
0F 11 0004E BRB 7$ 1060
7E 10 AC 7D 00050 6$: MOVQ FA03, -(SP)
7E 08 AC 7D 00054 MOVQ FA01, -(SP)
24 BB 00058 PUSHR #^M<R2,R5>
7E 7C 0005A CLRQ -(SP)
64 08 FB 0005C CALLS #8, ANL$FORMAT_LINE
0000' CF D6 0005F 7$: INCL ERROR_COUNT
50 52 D0 00063 MOVL R2, TMP_CODE
03 00 EF 00066 EXTZV #0, #3, TMP_CODE, R1
50 01 00 EF 00068 EXTZV #0, #1, TMP_CODE, R0 1061
1067
1068
```

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS FILE 16-Sep-1984 00:10:49
ANL\$FORMAT_ERROR - Put Error Message in Report 14-Sep-1984 11:53:01 3
VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]RMSREPORT.B32:1

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	50		04	C4 00070	MULL2	#4, R0
	51		50	C2 00073	SUBL2	R0, R1
	51		03	C0 00076	ADDL2	#3, R1
53	50	0000G	CF	D0 00079	MOVL	ANL\$WORST_ERROR, TMP_CODE
	03		00	EF 0007E	EXTZV	#0, #3, TMP_CODE, R3
	01		00	EF 00083	EXTZV	#0, #1, TMP_CODE, R0
	50		04	C4 00088	MULL2	#4, R0
	53		50	C2 00088	SUBL2	R0, R3
	50	03	A3	9E 0008E	MOVAB	3(R3), R0
	50		51	D1 00092	CMPL	R1, R0
			05	15 00095	BLEQ	8\$
		0000G	CF	52 D0 00097	MOVL	R2, ANL\$WORST_ERROR
				04 0009C 8\$:	RET	

1069

1070
1074

; Routine Size: 157 bytes, Routine Base: \$CODE\$ + 02DF

```

574 1075 1 %sbttl 'ANL$ERROR_COUNT - Report Count of Errors'
575 1076 1 ++
576 1077 1 Functional Description:
577 1078 1 This routine is called to print a line telling how many errors
578 1079 1 were discovered during the analysis.
579 1080 1
580 1081 1 Formal Parameters:
581 1082 1 none
582 1083 1
583 1084 1 Implicit Inputs:
584 1085 1 global data
585 1086 1
586 1087 1 Implicit Outputs:
587 1088 1 global data
588 1089 1
589 1090 1 Returned Value:
590 1091 1 none
591 1092 1
592 1093 1 Side Effects:
593 1094 1
594 1095 1 --
595 1096 1
596 1097 1
597 1098 2 global routine anl$error_count: novalue = begin
598 1099 2
599 1100 2
600 1101 2 ! First we print the error count in the report.
601 1102 2
602 1103 2 if .error_count eqiu 0 then
603 1104 2     anl$format_line(0,0,anlrms$_errornone)
604 1105 2 else
605 1106 2     anl$format_line(0,0,anlrms$_errorcount,.error_count);
606 1107 2
607 1108 2 ! If this is a /CHECK or /STATISTICS report, we want the user to know
608 1109 2 what happened. If the report is going to a file, then we better display
609 1110 2 a summary line.
610 1111 2
611 1112 2 if (.anl$gb_mode eqiu anl$k_check or .anl$gb_mode eqiu anl$k_statistics) and
612 1113 2 (not .generating_report or .report_to_file) then
613 1114 2     signal (anlrms$_errors,2,input_file_spec,.error_count);
614 1115 2
615 1116 2 ! Now we can reset the error counter for the next file.
616 1117 2
617 1118 2 error_count = 0;
618 1119 2
619 1120 2 return;
620 1121 2
621 1122 1 end;

```

52	0000' 0004 00000	.ENTRY ANL\$ERROR_COUNT, Save R2	: 1098
50	CF 9E 00002	MOVAB ERROR_COUNT, R2	
	62 D0 00007	MOVL ERROR_COUNT, R0	
	OF 12 0000A	BNEQ 18	: 1103

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS_FILE K 3
ANL\$ERROR_COUNT - Report Count of Errors 16-Sep-1984 00:10:49 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:53:01 [ANALYZ.SRC]RMSREPORT.B32;1

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		00000000G	8F	DD 0000C	PUSHL	#ANLRMSS_ERRORNONE	1104	
			7E	7C 00012	CLRQ	-(SP)		
FE3D	CF		03	FB 00014	CALLS	#3, ANL\$FORMAT_LINE		
			0F	11 00019	BRB	28		
		00000000G	50	DD 0001B	18:	PUSHL	RO	
			8F	DD 0001D	PUSHL	#ANLRMSS_ERRORCOUNT	1106	
			7E	7C 00023	CLRQ	-(SP)		
FE2C	CF		04	FB 00025	CALLS	#4, ANL\$FORMAT_LINE		
01	0000G	CF	91	0002A	28:	CMPB	ANLSGB_MODE, #T	1112
04	0000G	CF	91	0002F	BEQL	38		
			1E	12 00031	CMPB	ANLSGB_MODE, #4		
04	FEE4	C2	E9 00038	38:	BNEQ	58		
15	FC	A2	E9 0003D	BLBC	GENERATING REPORT	48	1113	
			62	DD 00041	BLBC	REPORT TO FILE, 5\$		
	FEEC	C2	9F 00043	48:	PUSHL	ERROR_COUNT	1114	
		00000000G	02	DD 00047	PUSHAB	INPUTFILE_SPEC		
00000000G	00		8F	DD 00049	PUSHL	#2		
			04	FB 0004F	CALLS	#ANLRMSS_ERRORS		
			62	D4 00056	58:	CLRL	#4, LIB\$SIGNAL	1118
			04	00058	RET	ERROR_COUNT	1122	

: Routine Size: 89 bytes, Routine Base: \$CODE\$ + 037C

```
623 1123 1 %sbttl 'ANL$FORMAT_FLAGS - Format Flag Bits'
624 1124 1 ++
625 1125 1 Functional Description:
626 1126 1 This routine is called to format the flags in a byte/word/longword
627 1127 1 of flags.
628 1128 1
629 1129 1 Formal Parameters:
630 1130 1 indent_level The level at which the introductory message is to
631 1131 1 be indented. The flags are indented one more level.
632 1132 1 intro_msg The introductory message.
633 1133 1 flags The flag bits.
634 1134 1 flag_def A longword vector defining the flags. The zeroth
635 1135 1 entry specifies the highest-numbered flag. The
636 1136 1 remaining longwords contain the address of a counted
637 1137 1 string giving the name of the flag. If the flag is
638 1138 1 undefined, the longword contains zero.
639 1139 1
640 1140 1 Implicit Inputs:
641 1141 1 global data
642 1142 1
643 1143 1 Implicit Outputs:
644 1144 1 global data
645 1145 1
646 1146 1 Returned Value:
647 1147 1 none
648 1148 1
649 1149 1 Side Effects:
650 1150 1
651 1151 1 !!
652 1152 1
653 1153 1
654 1154 2 global routine anl$format_flags(indent_level,intro_msg,flags,flag_def): novalue = begin
655 1155 2
656 1156 2 bind
657 1157 2     flags_vector = flags: bitvector[],
658 1158 2     flag_def_vector = .flag_def: vector[,long];
659 1159 2
660 1160 2 local
661 1161 2     i: long;
662 1162 2
663 1163 2
664 1164 2 ! Begin by printing the introductory message.
665 1165 2
666 1166 2     anl$format_line(2,.indent_level,.intro_msg);
667 1167 2
668 1168 2 ! Now we loop through the flags and process each one that is defined.
669 1169 2 ! We print the flag name, bit number, and current setting.
670 1170 2
671 1171 3     incru i from 0 to .flag_def_vector[0] do (
672 1172 3         if .flag_def_vector[i+1] nequ 0 then
673 1173 3             anl$format_line(0,.indent_level+1,anlrms$_.flag,
674 1174 3                     .i,.flag_def_vector[i+1],.flags_vector[i]);
675 1175 2     );
676 1176 2
677 1177 2     return;
678 1178 2
679 1179 1 end;
```

			0004 00000	.ENTRY	ANL\$FORMAT_FLAGS, Save R2	: 1154
		7E	04 AC 7D 00002	MOVQ	INDENT_LEVEL, -(SP)	: 1166
			02 DD 00006	PUSHL	#2	
		FDF0	CF 03 FB 00008	CALLS	#3, ANL\$FORMAT_LINE	: 1171
			52 D4 0000D	CLRL	I	
			29 11 0000F	BRB	3\$	
			10 BC 42 DE 00011	MOVAL	@FLAG_DEF[I], R0	: 1172
			18: 04 A0 D5 00016	TSTL	4(R0)	
			1D 13 00019	BEQL	2\$	
		7E	0C AC 01 52 EF 0001B	EXTZV	I, #1, FLAGS_VECTOR, -(SP)	: 1174
			04 A0 DD 00021	PUSHL	4(R0)	
			52 DD 00024	PUSHL	I	
		7E	04 AC 00000000G 8F DD 00026	PUSHL	#ANLRMSS_FLAG	: 1173
			01 C1 0002C	ADDL3	#1, INDENT_LEVEL, -(SP)	
			7E D4 00031	CLRL	-(SP)	
		FDC5	CF 06 FB 00033	CALLS	#6, ANL\$FORMAT_LINE	: 1171
			52 D6 00038	INCL	I	
			2\$: 10 BC 52 D1 0003A	CMPL	I, @FLAG_DEF	
			3\$: D1 1B 0003E	BLEQU	1\$	
			04 00040	RET		: 1179

; Routine Size: 65 bytes. Routine Base: \$CODE\$ + 03D5

```
681 1180 1 %sbttl 'ANL$FORMAT_HEX - Format Hex Dump of Data'
682 1181 1 ++
683 1182 1 Functional Description:
684 1183 1 This routine is called to format a hex dump of some bytes.
685 1184 1 It includes the character representation of the bytes also.
686 1185 1
687 1186 1 Formal Parameters:
688 1187 1 indent_level The indentation level at which to place the dump.
689 1188 1 data Address of descriptor of data to be dumped.
690 1189 1
691 1190 1 Implicit Inputs:
692 1191 1 global data
693 1192 1
694 1193 1 Implicit Outputs:
695 1194 1 global data
696 1195 1
697 1196 1 Returned Value:
698 1197 1 none
699 1198 1
700 1199 1 Side Effects:
701 1200 1
702 1201 1 --
703 1202 1
704 1203 1
705 1204 2 global routine anl$format_hex(indent_level,data): novalue = begin
706 1205 2
707 1206 2 bind
708 1207 2 data_dsc = .data: descriptor,
709 1208 2 data_vector = .data_dsc[ptr]: vector[,byte];
710 1209 2
711 1210 2 local
712 1211 2 i: long,
713 1212 2 arg_list: vector[20,long],
714 1213 2 count: long;
715 1214 2
716 1215 2 builtin
717 1216 2 callg;
718 1217 2
719 1218 2
720 1219 2 ! If the data is null, just quit.
721 1220 2
722 1221 2 if .data_dsc[len] eqiu 0 then
723 1222 2   return;
724 1223 2
725 1224 2 ! We begin by printing two heading lines. The first shows the offsets
726 1225 2 ! of the bytes and the second is a line of dashes.
727 1226 2
728 1227 2 anl$format_line(3,.indent_level,anlrms$_hexheading1);
729 1228 2 anl$format_line(0,.indent_level,anlrms$_hexheading2);
730 1229 2
731 1230 2 ! We will be builing argument lists to ANL$FORMAT LINE. It will always
732 1231 2 ! include widow control, indentation level, and the message code.
733 1232 2
734 1233 2 arg_list[1] = 0;
735 1234 2 arg_list[2] = .indent_level;
736 1235 2 arg_list[3] = anlrms$_hexdata;
737 1236 2
```

```

: 738 1237 2 ! Now we go into a loop, once through for each 8 bytes to be formatted.
: 739 1238 2
: 740 1239 2 i = 0;
: 741 1240 2 while .i <su .data_dsc[len] do (
: 742 1241 3
: 743 1242 3 ! Calculate the number of bytes that will go on this line.
: 744 1243 3
: 745 1244 3 count = minu(.data_dsc[len]-.i,8);
: 746 1245 3
: 747 1246 3 ! Next in the argument list we need a count of the spaces to skip
: 748 1247 3 ! so the bytes will be lined up from right to left.
: 749 1248 3
: 750 1249 3
: 751 1250 3
: 752 1251 3 ! Now we need the count itself.
: 753 1252 3
: 754 1253 3
: 755 1254 3
: 756 1255 3
: 757 1256 3 ! Now we loop through 8 (or less) bytes and put them in the
: 758 1257 3 ! argument list (backwards, of course).
: 759 1258 4
: 760 1259 4
: 761 1260 4
: 762 1261 4
: 763 1262 4
: 764 1263 4
: 765 1264 4
: 766 1265 4
: 767 1266 4
: 768 1267 4
: 769 1268 4 ! Now we have to add to the argument list the byte count and a
: 770 1269 4 ! pointer to the byte string.
: 771 1270 4
: 772 1271 4
: 773 1272 4
: 774 1273 4 ! Finally, fill in the argument count.
: 775 1274 4
: 776 1275 4
: 777 1276 4
: 778 1277 4 ! Now we can print the hex data.
: 779 1278 4
: 780 1279 4
: 781 1280 2
: 782 1281 2
: 783 1282 2 return;
: 784 1283 2
: 785 1284 1 end;

```

55	FD86	003C 00000	.ENTRY	ANL\$FORMAT_HEX, Save R2,R3,R4,R5
5E	80	CF 9E 00002	MOVAB	ANL\$FORMAT-LINE, R5
54	08	AE 9E 00007	MOVAB	-80(SP), SP
		AC D0 0000B	MOVL	DATA, R4

: 1204

: 1207

		66	B5 0000F	TSTW (R4)	1221
		33	13 00011	BEQL 2\$	
		00000000G	8F DD 00013	PUSHL #ANLRMSS_HEXHEADING1	1227
		04	AC DD 00019	PUSHL INDENT_LEVEL	
		65	03 DD 0001C	PUSHL #3	
		00000000G	03 FB 0001E	CALLS #3, ANL\$FORMAT_LINE	1228
		04	8F DD 00021	PUSHL #ANLRMSS_HEXHEADING2	
		65	AC DD 00027	PUSHL INDENT_LEVEL	
		04	7E D4 0002A	CLRL -(SP)	
		65	03 FB 0002C	CALLS #3, ANL\$FORMAT_LINE	
		08	AE D4 0002F	CLRL ARG_LIST+4	1233
		0C	AE 04 00032	MOVL INDENT_LEVEL, ARG_LIST+8	1234
		00000000G	8F D0 00037	MOVL #ANLRMSS_HEXDATA, ARG_LIST+12	1235
		53	D4 0003F	CLRL I	1239
53	64	10	00 ED 00041	1\$: CMPZV #0, #16, (R4), I	1240
			4F 1B 00046	2\$: BLEQU 6\$	
		50	64 3C 00048	MOVZWL (R4), R0	
		50	53 C2 0004B	SUBL2 I, R0	
		08	50 D1 0004E	CMPL R0, #8	
		50	03 1B 00051	BLEQU 3\$	
		50	08 D0 00053	MOVL #8, R0	
		52	50 D0 00056	MOVL R0, COUNT	
		50	F8 A2 9E 00059	3\$: MOVAB -8(R2), R0	1249
		10	50 C4 0005D	MULL2 #3, R0	
		14	AE 50 CE 00060	MNEGL R0, ARG_LIST+16	
		AE	52 D0 00064	MOVL COUNT, ARG_LIST+20	1253
		50	52 D0 00068	MOVL COUNT, J	1258
			09 11 0006B	BRB 5\$	
		18	AE40 04 B443 9A 0006D	4\$: MOVZBL @4(R4)[I], ARG_LIST+24[J]	1259
			53 D6 00074	INCL I	1260
		50	F4 00076	5\$: SOBGEQ J, 4\$	1258
50		53	52 C3 00079	SUBL3 COUNT, I, R0	1265
		18	AE42 50 D0 0007D	MOVL R0, ARG_LIST+24[COUNT]	
		1C	AE42 52 D0 00082	MOVL COUNT, ARG_LIST+28[COUNT]	1270
		20	AE42 04 B440 9E 00087	MOVAB @4(R4)[R0], ARG_LIST+32[COUNT]	1271
		6E	08 A2 9E 0008E	MOVAB 8(R2), ARG_LIST	1275
		65	6E FA 00092	CALLG ARG_LIST, ANL\$FORMAT_LINE	1279
			AA 11 00095	BRB 1\$	1240
			04 00097	RET	1284

: Routine Size: 152 bytes, Routine Base: \$CODE\$ + 0416

```
787 1285 1 %sbttl 'ANL$FORMAT_PROTECTION_MASK - Format Protection Mask'  
788 1286 1 ++  
789 1287 1 Functional Description:  
790 1288 1 This routine is called to format the standard 16-bit system  
791 1289 1 protection mask.  
792 1290 1  
793 1291 1 Formal Parameters:  
794 1292 1 indent_level Indentation level in the report.  
795 1293 1 message Status code for message to use.  
796 1294 1 protection Protection mask.  
797 1295 1  
798 1296 1 Implicit Inputs:  
799 1297 1 global data  
800 1298 1  
801 1299 1 Implicit Outputs:  
802 1300 1 global data  
803 1301 1  
804 1302 1 Returned Value:  
805 1303 1 none  
806 1304 1  
807 1305 1 Side Effects:  
808 1306 1  
809 1307 1 --  
810 1308 1  
811 1309 1  
812 1310 2 global routine anl$format_protection_mask(indent_level,message,protection): novalue = begin  
813 1311 2  
814 1312 2 own  
815 1313 2 protection_table: vector[16, long] initial(  
816 1314 2 uplit byte (%ascic 'RWED'),  
817 1315 2 uplit byte (%ascic 'WED'),  
818 1316 2 uplit byte (%ascic 'RED'),  
819 1317 2 uplit byte (%ascic 'ED'),  
820 1318 2 uplit byte (%ascic 'RWD'),  
821 1319 2 uplit byte (%ascic 'WD'),  
822 1320 2 uplit byte (%ascic 'RD'),  
823 1321 2 uplit byte (%ascic 'D'),  
824 1322 2 uplit byte (%ascic 'RWE'),  
825 1323 2 uplit byte (%ascic 'WE'),  
826 1324 2 uplit byte (%ascic 'RE'),  
827 1325 2 uplit byte (%ascic 'E'),  
828 1326 2 uplit byte (%ascic 'RW'),  
829 1327 2 uplit byte (%ascic 'W'),  
830 1328 2 uplit byte (%ascic 'R'),  
831 1329 2 uplit byte (%ascic ''));  
832 1330 2  
833 1331 2  
834 1332 2 ! Simply format the message using the above protection code table.  
835 1333 2  
836 1334 2 anl$format_line(0..indent_level..message..protection_table[.protection<0,4,0>],  
837 1335 2 .protection_table[.protection<4,4,0>],  
838 1336 2 .protection_table[.protection<8,4,0>],  
839 1337 2 .protection_table[.protection<12,4,0>]);  
840 1338 2  
841 1339 2 return;  
842 1340 2  
843 1341 1 end;
```

.PSECT SPLIT\$,NOWRT,NOEXE,2

44	45	57	52	04	00068	P.AAO:	.ASCII	<4>\RWED\
44	45	57	52	03	0006D	P.AAP:	.ASCII	<3>\WED\
44	45	52	03		00071	P.AAQ:	.ASCII	<3>\RED\
44	57	52	02		00075	P.AAR:	.ASCII	<2>\ED\
44	57	52	03		00078	P.AAS:	.ASCII	<3>\RWD\
44	57	52	02		0007C	P.AAT:	.ASCII	<2>\WD\
44	52	02			0007F	P.AAU:	.ASCII	<2>\RD\
	44	52	01		00082	P.AAV:	.ASCII	<1>\D\
45	57	52	03		00084	P.AAW:	.ASCII	<3>\RWE\
45	57	52	02		00088	P.AAX:	.ASCII	<2>\WE\
45	52	02			0008B	P.AAY:	.ASCII	<2>\RE\
57	45	01			0008E	P.AAZ:	.ASCII	<1>\E\
	57	52	02		00090	P.ABA:	.ASCII	<2>\RWI\
	57	57	01		00093	P.ABB:	.ASCII	<1>\WI\
	52	01			00095	P.ABC:	.ASCII	<1>\R\
		00			00097	P.ABD:	.ASCII	<0>

.PSECT SOWNS,NOEXE,2

00000000'	00000000'	00000000'	00000000'	00000000'	00000000'	00685
00000000'	00000000'	00000000'	00000000'	00000000'	00000000'	00688
00000000'	00000000'	00000000'	00000000'	00000000'	00000000'	006A0
00000000'	00000000'	00000000'	00000000'	00000000'	00000000'	006B8

.BLKB 3
PROTECTION TABLE:

ADDRESS P.AAO, P.AAP, P.AAQ, P.AAR, P.AAS, -
P.AAT, P.AAU, P.AAV, P.AAW, P.AAX, P.AAY, -
P.AAZ, P.ABA, P.ABB, P.ABC, P.ABD

.PSECT SCODE\$,NOWRT,2

50	0D	AC	52	0000	0004	00000	.ENTRY	ANL\$FORMAT_PROTECTION_MASK, Save R2	: 1310
			04		CF	9E 0002	MOVAB	PROTECTION_TABLE, R2	
					04	EF 0007	EXTZV	#4, #4, PROTECTION+1, R0	: 1337
50	0D	AC	04		6240	DD 0000D	PUSHL	PROTECTION_TABLE[R0]	
					00	EF 00010	EXTZV	#0, #4, PROTECTION+1, R0	: 1336
50	0C	AC	04		6240	DD 00016	PUSHL	PROTECTION_TABLE[R0]	
					04	EF 00019	EXTZV	#4, #4, PROTECTION, R0	: 1335
50	0C	AC	04		6240	DD 0001F	PUSHL	PROTECTION_TABLE[R0]	
					00	EF 00022	EXTZV	#0, #4, PROTECTION, R0	: 1334
			7E	04	6240	DD 00028	PUSHL	PROTECTION_TABLE[R0]	
					AC	7D 0002B	MOVQ	INDENT_LEVEL, -(SP)	
					7E	D4 0002F	CLRL	-(SP)	
			FCEE	CF	07	FB 00031	CALLS	#7, ANL\$FORMAT_LINE	
					04	00036	RET		: 1341

; Routine Size: 55 bytes. Routine Base: SCODE\$ + 04AE

```
845 1342 1 %sbttl 'ANLSFORMAT_FILE_ATTRIBUTES - Format File Attribute Area'  
846 1343 1 ++  
847 1344 1 Functional Description:  
848 1345 1 This routine is called to format the user file attribute area, which  
849 1346 1 is assumed to contain RMS file attributes. We don't check the  
850 1347 1 attributes.  
851 1348 1  
852 1349 1 Formal Parameters:  
853 1350 1 none  
854 1351 1  
855 1352 1 Implicit Inputs:  
856 1353 1 global data  
857 1354 1  
858 1355 1 Implicit Outputs:  
859 1356 1 global data  
860 1357 1  
861 1358 1 Returned Value:  
862 1359 1 none  
863 1360 1  
864 1361 1 Side Effects:  
865 1362 1  
866 1363 1 --  
867 1364 1  
868 1365 1  
869 1366 2 global routine anl$format_file_attributes: novalue = begin  
870 1367 2  
871 1368 2  
872 1369 2 ! We start with a nice little header.  
873 1370 2  
874 1371 2 anl$format_line(3,0,anlrms$_fileattr);  
875 1372 2 anl$format_skip(0);  
876 1373 2  
877 1374 2 ! The first data printed is the file organization.  
878 1375 2  
879 1376 3 anl$format_line(0,1,anlrms$_fileorg,(selectoneu .anl$gl_fat[fat$v_fileorg] of set  
880 1377 3 [fat$e_sequential]: uplit byte (%ascic 'sequential');  
881 1378 3 [fat$e_relative]: uplit byte (%ascic 'relative');  
882 1379 3 [fat$e_indexed]: uplit byte (%ascic 'indexed');  
883 1380 3 tes));  
884 1381 2  
885 1382 2 ! Now we include the record format and attributes.  
886 1383 2  
887 1384 2 anl$format_line(0,1,anlrms$_recfmt,  
888 1385 3 (selectoneu .anl$gl_fat[fat$v_rtype] of set  
889 1386 3 [fat$e_undefined]: uplit byte (%ascic 'undefined');  
890 1387 3 [fat$e_fixed]: uplit byte (%ascic 'fixed');  
891 1388 3 [fat$e_variable]: uplit byte (%ascic 'variable');  
892 1389 3 [fat$e_vfc]: uplit byte (%ascic 'variable-with-fixed-control');  
893 1390 3 [fat$e_stream]: uplit byte (%ascic 'stream');  
894 1391 3 [fat$e_streamlf]: uplit byte (%ascic 'stream-Lf');  
895 1392 3 [fat$e_streamcr]: uplit byte (%ascic 'stream-(R>');  
896 1393 3 tes));  
897 1394 2  
898 1395 3 anl$format_line(0,1,anlrms$_recattr,(if .anl$gl_fat[fat$v_nospan] then uplit byte (%ascic 'no-span')  
899 1396 3 else uplit byte (%ascic ')),  
900 1397 3 (if .anl$gl_fat[fat$v_impliedcc] then uplit byte (%ascic 'carriage-return')  
901 1398 3 else if .anl$gl_fat[fat$v_fortrancc] then uplit byte (%ascic 'fortran')
```

```

902 1399 3
903 1400 2
904 1401 2
905 1402 2
906 1403 2
907 1404 2
908 1405 2
909 1406 2
910 1407 2
911 1408 2
912 1409 2
913 1410 2
914 1411 2
915 1412 2
916 1413 2
917 1414 2
918 1415 2
919 1416 2
920 1417 2
921 1418 2
922 1419 2
923 1420 2
924 1421 2
925 1422 2
926 1423 2
927 1424 2
928 1425 2
929 1426 2
930 1427 2
931 1428 2
932 1429 2
933 1430 2
934 1431 1

      else if .anl$gl_fat[fat$v_printcc] then uplit byte (%ascic 'print')
      else uplit byte (%ascic ''));
      ! Now the maximum record size and the longest record size.
      anl$format_line(0,1,anlrms$_maxrecsize,.anl$gl_fat[fat$w_maxrec]);
      if .anl$gl_fat[fat$v_fileorg] eqlu fat$c_sequential or .anl$gl_fat[fat$v_rtype] eqlu fat$c_fixed then
          anl$format_line(0,1,anlrms$_longrec,.anl$gl_fat[fat$w_rsize]);
      ! Now the header size for variable with fixed control.
      if .anl$gl_fat[fat$v_rtype] eqlu fat$c_vfc then
          anl$format_line(0,1,anlrms$_ct[size],.anl$gl_fat[fat$b_vfcsize]);
      ! Now the number of blocks allocated, extend quantity, and the end-of-file
      ! information.
      anl$format_line(0,1,anlrms$_alloc,.anl$gl_fat[fat$l_hiblk],.anl$gl_fat[fat$w_defext]);
      if .anl$gl_fat[fat$v_fileorg] eqlu fat$c_sequential then
          anl$format_line(0,1,anlrms$_eof,.anl$gl_fat[fat$l_efblk],.anl$gl_fat[fat$w_ffbyte]);
      ! Now the bucket size, unless it's a sequential file.
      if .anl$gl_fat[fat$v_fileorg] eqlu fat$c_relative or .anl$gl_fat[fat$v_fileorg] eqlu fat$c_indexed then
          anl$format_line(0,1,anlrms$_bucketsize,.anl$gl_fat[fat$b_bktsize]);
      ! Finally, display the global buffer count.
      anl$format_line(0,1,anlrms$_globalbufs,.anl$gl_fat[fat$w_gbc]);
      return;
  end;

```

.PSECT SPLIT\$,NOWRT,NOEXE,2

6C	61	69	74	6E	65	75	71	65	73	0A	00098	P.ABE:	.ASCII	<10>\sequential\
		65	76	69	74	61	6C	65	72	08	000A3	P.ABF:	.ASCII	<8>\relative\
		64	65	78	65	64	6E	69	07	000AC	P.ABG:	.ASCII	<7>\indexed\	
	64	65	6E	69	66	65	64	6E	75	09	000B4	P.ABH:	.ASCII	<9>\undefined\
					64	65	78	69	66	05	000BE	P.ABI:	.ASCII	<5>\fixed\
					66	65	72	61	76	08	000C4	P.ABJ:	.ASCII	<8>\variable\
					66	65	72	61	76	1B	000CD	P.ABK:	.ASCII	<27>\variable-with-fixed-control\
2D	68	74	69	77	2D	65	6C	62	61	69	00	P.ABL:	.ASCII	<6>\stream\
					6C	6F	72	74	6E	6F	00	P.ABM:	.ASCII	<9>\stream-LF\
									6D	61	00	P.ABN:	.ASCII	<9>\stream-CR\
									6D	65	00	P.ABO:	.ASCII	<7>\no-span\
									65	72	00	P.ABP:	.ASCII	<0>
									74	72	00	P.ABQ:	.ASCII	<15>\carriage-return\
									74	6E	00	P.ABR:	.ASCII	<7>\fortran\
									6E	69	00	P.ABS:	.ASCII	<5>\print\
									72	70	00	P.ABT:	.ASCII	<0>

						.PSECT	\$CODE\$,NOWRT,2						
51	00	B4	00F6	56	0000G	001C	00000	.ENTRY	ANL\$FORMAT_FILE_ATTRIBUTES, Save R2,R3,R4	: 1366			
				53	FCE2	CF	9E	00002	MOVAB	ANL\$GL_FAT, R4			
				52	0000	CF	9E	00007	MOVAB	ANL\$FORMAT_LINE, R3			
					00000000G	8F	DD	00011	MOVAB	P.ABE, R2			
						03	7D	00017	PUSHL	#ANL\$RMSS_FILEATTR			
						63	03	FB	0001A	MOVO	#3, -(SP)	1371	
							7E	D4	0001D	CALLS	#3, ANL\$FORMAT_LINE		
							01	FB	0001F	CLRL	-(SP)	1372	
							04	EF	00024	CALLS	#1, ANL\$FORMAT_SKIP		
							05	12	0002A	EXTZV	#4, #4, @ANL\$GE_FAT, R1	1376	
							50	62	0002C	BNEQ	1S	1377	
							19	11	0002F	MOVAB	P.ABE, R0		
							01	51	D1	00031	BRB	4S	1378
							06	12	00034	CMPL	R1, #1		
							50	08	A2	9E	BNEQ	2S	
							0E	11	00036	MOVAB	P.ABF, R0		
			02		51	D1	0003C	BRB	4S				
					05	13	0003F	CMPL	R1, #2	1379			
			7E		01	CE	00041	BEQL	3S				
					06	11	00044	MNEGL	#1, -(SP)				
			50	14	A2	9E	00046	BRB	5S				
					50	DD	0004A	MOVAB	P.ABG, R0				
					8F	DD	0004C	PUSHL	R0				
					01	DD	00052	PUSHL	#ANL\$RMSS_FILEORG	1376			
					7E	D4	00054	CLRL	#1				
			63		04	FB	00056	CALLS	-(SP)				
					00	EF	00059	EXTZV	#4, ANL\$FORMAT_LINE				
			50		06	12	0005F	BNEQ	#0, #4, @ANL\$GE_FAT, R0	1385			
					51	10	9E	00061	MOVAB	1386			
					35	11	00065	BRB	P.ABH, R1				
			01		50	D1	00067	CMPL	11S				
					06	12	0006A	BNEQ	R0, #1	1387			
			51		51	A2	9E	0006C	MOVAB	7S			
					26	2A	11	00070	BRB	P.ABI, R1			
			02		50	D1	00072	CMPL	11S				
					06	12	00075	BNEQ	R0, #2	1388			
			51		51	A2	9E	00077	MOVAB	8S			
					20	1F	11	0007B	BRB	P.ABJ, R1			
			03		50	D1	0007D	CMPL	11S				
					06	12	00080	BNEQ	R0, #3	1389			
			51		51	A2	9E	00082	MOVAB	9S			
					35	14	11	00086	BRB	P.ABK, R1			
			04		50	D1	00088	CMPL	11S				
					06	12	0008B	BNEQ	R0, #4	1390			
			51		51	A2	9E	0008D	MOVAB	10S			
					51	09	11	00091	BRB	P.ABL, R1			
			05		50	D1	00093	CMPL	11S				
					08	12	00096	BNEQ	R0, #5	1391			
			51		51	A2	9E	00098	MOVAB	12S			
					58	DD	0009C	PUSHL	P.ABM, R1				
					10	11	0009E	BRB	R1				
			06		50	D1	000A0	CMPL	14S				
									R0, #6	1392			

		00000000G	8F	DD 00161	PUSHL	#ANLRMSS_ALLOC	
			01	DD 00167	PUSHL	#1	
			7E	D4 00169	CLRL	-(SP)	
			50	60 0016B	CALLS	#5, ANL\$FORMAT_LINE	
			BF	60 93 00171	MOVL	ANL\$GL_FAT, R0	
				14 12 00175	BITB	(R0), #240	
			7E	AO 3C 00177	BNEQ	24\$	
			0C	A0 DD 0017B	MOVZWL	12(R0), -(SP)	
			08	01 DD 0017E	PUSHL	8(R0)	
		00000000G	8F	01 DD 00184	PUSHL	#ANLRMSS_EOF	
				7E D4 00186	PUSHL	#1	
			63	05 FB 00188	CLRL	-(SP)	
			50	64 DD 0018B	CALLS	#5, ANL\$FORMAT_LINE	
01	60		04	04 ED 0018E	MOVL	ANL\$GL_FAT, R0	
				07 13 00193	CMPZV	#4, #4, (R0), #1	
02	60		04	04 ED 00195	BEQL	25\$	
				11 12 0019A	CMPZV	#4, #4, (R0), #2	
			7E	AO 9A 0019C	BNEQ	26\$	
		00000000G	8F	01 DD 001A0	MOVZBL	14(R0), -(SP)	
				01 DD 001A6	PUSHL	#ANLRMSS_BUCKETSIZE	
			63	7E D4 001A8	PUSHL	#1	
			50	04 FB 001AA	CLRL	-(SP)	
			7E	64 DD 001AD	CALLS	#4, ANL\$FORMAT_LINE	
		00000000G	14	AO 3C 001B0	MOVL	ANL\$GL_FAT, R0	
			8F	8F DD 001B4	MOVZWL	20(R0), -(SP)	
				01 DD 001BA	PUSHL	#ANLRMSS_GLOBALBUFS	
			7E	7E D4 001BC	PUSHL	#1	
			63	04 FB 001BE	CLRL	-(SP)	
				04 001C1	CALLS	#4, ANL\$FORMAT_LINE	
					RET		

: Routine Size: 450 bytes, Routine Base: \$CODE\$ + 04E5

: 935 1432 1
: 936 1433 0 end eludom

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$DWN\$	1736	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS\$	300	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	1703	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Symbols -----	Pages	Processing
	Total Loaded Percent	Mapped	Time

RMSREPORT
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS FILE K 4
ANL\$FORMAT_FILE_ATTRIBUTES - Format File Attrib 16-Sep-1984 00:10:49
14-Sep-1984 11:53:01

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]RMSREPORT.B32;1

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(12)

: _\$255\$DUA28:[SYSLIB]LIB.L32:1

18619 84 0 1000 00:01.8

: COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:RMSREPORT/OBJ=OBJ\$:RMSREPORT MSRC\$:RMSREPORT/UPDATE=(ENH\$:RMSREPORT)

: Size: 1703 code + 2036 data bytes
: Run Time: 00:34.3
: Elapsed Time: 01:49.7
: Lines/CPU Min: 2507
: Lexemes/CPU-Min: 21226
: Memory Used: 264 pages
: Compilation Complete

0009 AH-BT13A-SE
VAX/VMS V4.0

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